

REMARKS	WELL LOG	ELECTRIC LOGS	FILE	X	WATER SANDS	LOCATION INSPECTED	REPORT NO.
DATE FILED SEPTEMBER 10, 1993							
AND REC & PATENTED		STATE LEASE NO.		PUBLIC LEASE NO.		INDIAN BIA	
DRILLING APPROVED		MARCH 31, 1992				14-20-603-373	
SPUDDED IN		PUT TO PRODUCING					
INITIAL PRODUCTION							
GRAVITY API							
GOR							
PRODUCING ZONES							
TOTAL DEPTH							
WELL ELEVATION							
DATE ABANDONED							
FIELD WILDCAT							
UNIT NA							
COUNTY SAN JUAN							
WELL NO BOX CANYON 5F WELL							
API NO. 43-037-31730							
LOCATION 2390' FNL FT FROM (N) IS1 LINE 1390' FWL FT FROM (E) (W) LINE SE NW 14 - 1/4 SEC 5							
TWP	RGE	SEC	OPERATOR				
42S	25E	5	CHUSKA ENERGY COMPANY				

CONFIDENTIAL

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
APPLICATION FOR PERMIT TO DRILL OR DEEPEN

1. TYPE OF WORK ☒ DRILL ☐ DEEPEN ☐
2. TYPE OF WELL
OIL WELL ☒ GAS WELL ☐ OTHER ☐ SINGLE ZONE ☐ MULTIPLE ZONE ☐

3. NAME OF OPERATOR
Chuska Energy Company

4. ADDRESS AND TELEPHONE NO.
3315 Bloomfield Highway Farmington, NM 87401 505-326-5525

5. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)
At surface 2390' FNL 1390' FWL

At proposed prod. zone Same

6. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
15.5 miles from Monrezuma Creek, Utah

7. DISTANCE FROM PROPOSED*
LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT.
(Also to nearest dril. unit line, if any) 1.1 miles

8. DISTANCE FROM PROPOSED LOCATION*
TO NEAREST WELL, DRILLING COMPLETED, OR APPLYING FOR, ON THIS LEASE, FT.
.5 miles

9. ELEVATIONS (Show whether DF, RT, GR, etc.)
4690' GR/4703' K3 proposed

10. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	GRADE SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/4"	K-55, 8 5/8"	24 ppf	500'	371 sx 'G' & 2% CaCl2
7 7/8"	K-55, 5 1/2"	18.5 ppf	3703'	320 sx 'G', 65:35 Poz & 6% Gel

REFER TO ATTACHED 10-POINT DRILLING PLAN

SEP 10 1993

CONFIDENTIAL

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

SIGNED [Signature] TITLE [Signature] DATE 12-12-91

(This space for Federal or State office use)

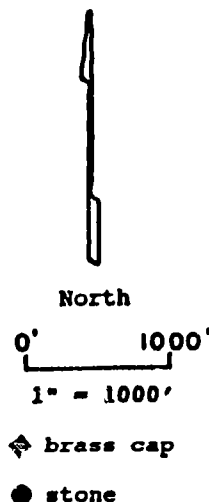
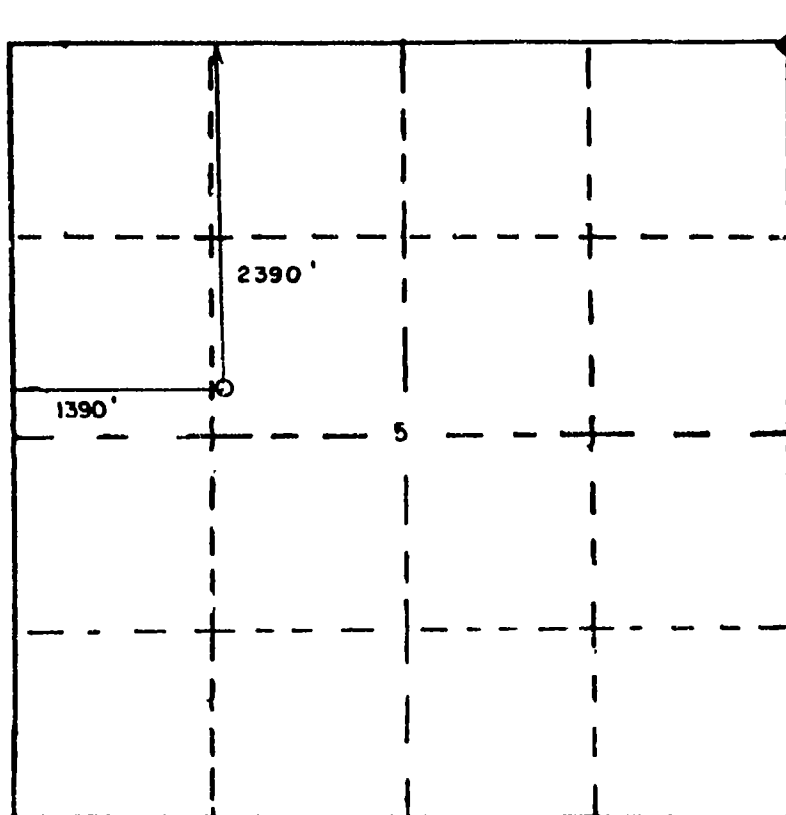
PERMIT NO. 43-C-32 31730 APPROVAL DATE APPROVED AS AMENDED

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

CONDITIONS OF APPROVAL, IF ANY:
OPERATOR [Signature] AREA MANAGER [Signature]

*See Instructions On Reverse Side

Well Location Plat



WELL LOCATION DESCRIPTION:

CEUSKA ENERGY CO., Box Canyon 5 - F
2390' FNL & 1390' FWL
Section 5, T.42 S., R.25 E., SIM
San Juan County, UT
4690' ground elevation
State plane coordinates from seismic control
X = 2,669,886 Y = 189,732
sp. 534.5 line 400-15

RECEIVED
BLM
OCT 17 PM 3:50
C. L. H. H. H. H. H.




The above is true and correct to my knowledge and belief.

25 November 1991

Gerald G. Huddleston
Gerald G. Huddleston, LS

CROSS SECTION

Box Canyon 5 - F

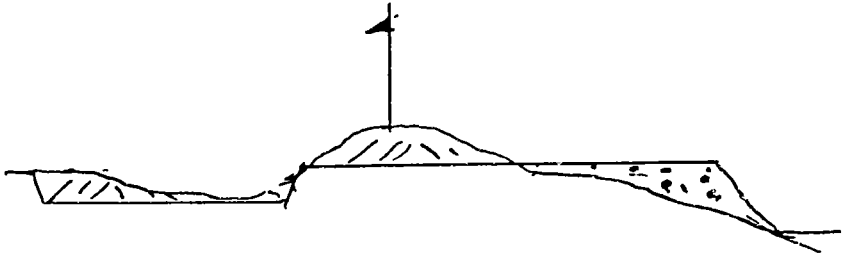
Cut /////
Fill 

1"=50' vert. & horz.



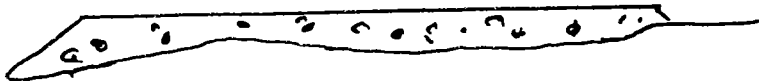
c

c'



b

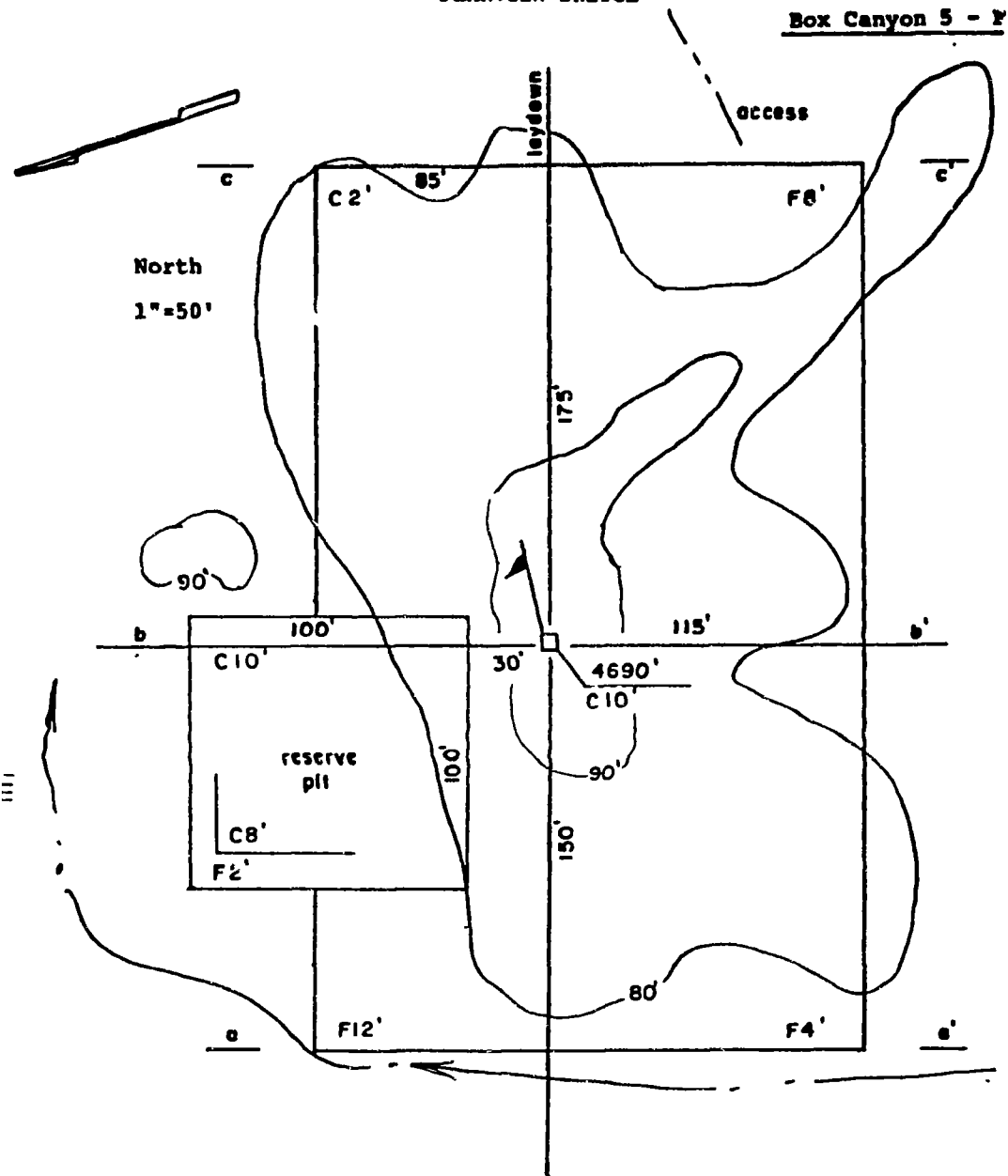
b'



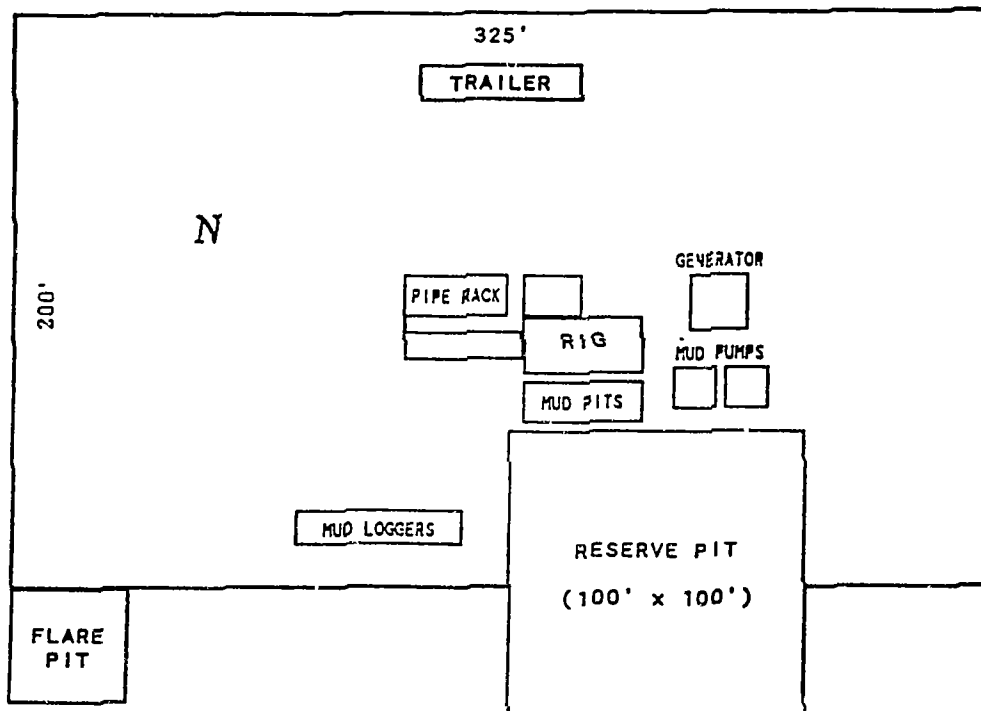
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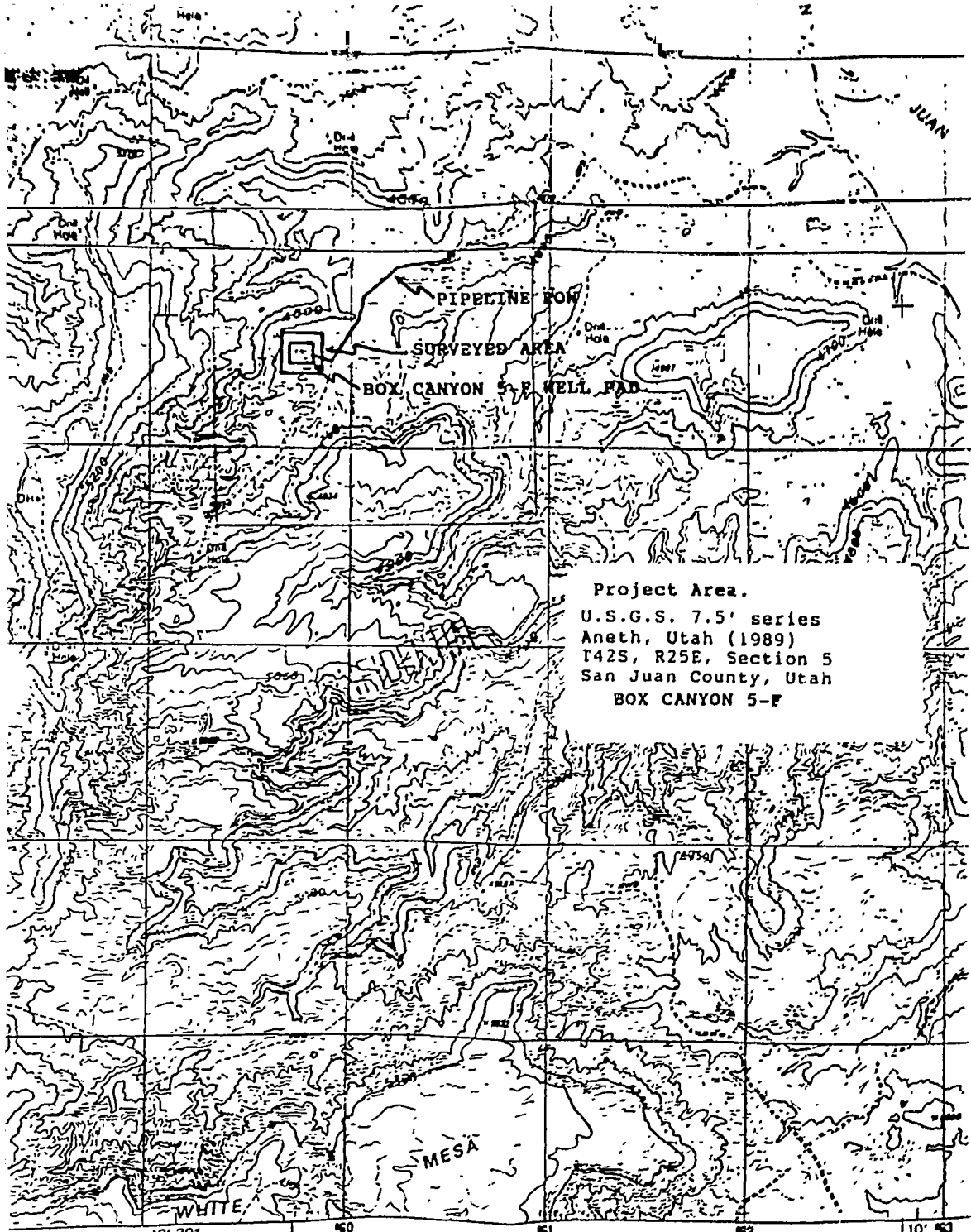
a'

Box Canyon 5 - F



Box Canyon 5-F
2390' FNL 1390' FWL
Section 5-T42S-R25E
San Juan County, Utah





Project Area.
U.S.G.S. 7.5' series
Aneth, Utah (1989)
T42S, R25E, Section 5
San Juan County, Utah
BOX CANYON 5-F

CHUSKA ENERGY COMPANY

10 POINT DRILLING PLAN

Box Canyon 5-F

Section 5, Township 42 South, Range 25 East

2290' FNL 1390' FWL

San Juan County, Utah

SURFACE FORMATION:

Geological name of surface formation: Morrison

ELEVATION:

Surface elevation is 4,690' GR/ 4,703' KB

ESTIMATED FORMATION TOPS

DEPTH	FORMATION	SUB-SEA ELEV.
528'	Navajo	+4175'
1355'	Chinle	+3348'
2455'	DeChelly	+2248'
2701'	Organ Rock	+2002'
3328'	Cedar Mesa	+1375'
4381'	Hermosa	+322'
5208'	Upper Ismay	-505'
5319'	Lower Ismay	-616' Secondary
5375'	Desert Crk	-672' Primary
5628'	Akah	-860'
5703'	Total Depth	-1000'

4. PROPOSED CASING/CEMENTING PROGRAM

	DEPTH	SIZE	WEIGHT	GRADE	COUPLING
SURFACE	500'	8 5/8"	24.0 ppf	K-55	STC
PROD.	5,450'	5 1/2"	15.5 ppf	K-55	STC

SURFACE CEMENTING:

371 sx Class 'G' Cement with 2% CaCl and 1/4 lb/sk Celloflake. Weight = 15.8 ppg, yield = 1.15 ft³/sk. Slurry volume will be calculated at 100% excess over annular volume.

PRODUCTION CEMENTING:

First Stage

TD to 3500' (stage collar @ +3500'). Lead with 168 sx Class 'G' cement, 65:35 Pozmix with 6% gel and 1/4 lb/sk Celloflake. Weight = 12.7 ppg, yield = 1.85 ft³/sk. Tail with 100 sx Class 'G' cement with 2% CaCl₂. Weight = 15.8 ppg, yield = 1.15 ft³/sk. Total of 426 ft³.

SECOND STAGE

3500' to surface. Lead with 271 sx Class 'G' cement, 65:35 Pozmix with 6% gel and 1/4 lb/sk Celloflake. Weight = 12.7 ppg, yield = 1.85 ft³/sk. Tail with 100 sx Class 'G' cement with 2% CaCl₂. Weight = 15.8 ppg, yield = 1.15 ft³/sk. Total of 616 ft³.

NOTE: Exact slurry volumes for the production string will be adjusted according to the caliper log which will be run prior to cementing. Special adjustments may be necessary if significant amounts of alt are drilled.

5. BLOWOUT PREVENTER (SEE ATTACHED SCHEMATICS)

As abnormal pressure is not anticipated, a 2000 psi BOP system would be sufficient for the drilling of this well. However, due to availability constraints, a 3000 psi system will be used, as per attached Exhibits "A" and "B". This will be a 10" x 900 series double ram preventer, equipped with a set of pipe and blind rams.

An accumulator system, with a pressure capacity sufficient to operate the rams three complete cycles without rig power, will be required as part of the rig equipment.

6. PROPOSED MUD PROGRAM

Surface to 3500'

Fresh water, gel, lime and native solids. Weight 8.3 - 8.7 ppg. Gel/lime sweeps are necessary for hole cleaning.

3500' to TD

Low solids, non-dispersed polymer system. Weight 8.6 - 8.8 ppg. Gel/lime sweeps as hole conditions dictate for hole cleaning. Fluid loss to be maintained at 15 cc or less. Fluid loss to be further reduced to 10 cc or less prior to coring, logging or DSTS.

7. AUXILIARY EQUIPMENT

- A. A kelly cock will be installed during drilling operations, with handle available on rig floor.
- B. Floor (stabbing) valves will be available, on the rig floor at all times, with necessary subs to fit all of the drilling assemblies.
- C. Mud will be the circulating fluid. No abnormal formation pressures are expected.

8. WELL EVALUATION

Open hole electric logging program will consist of a minimum program of DLL-MSFL-SP-GR-Cal, FDC-CNL-GR-Lithodensity from TD - 4000'

Drill stem testing will be as per the wellsite geologists' recommendations, based on shows. A mud logging unit will be utilized during drilling operations from 4000' to TD.

9. ABNORMAL PRESSURES/GAS

Abnormal pressures are not anticipated. Monitoring of gas and hydrocarbon shows will be by wellsite mud logging unit. H₂S gas is not anticipated, however, regular checks will be made while drilling the well.

10. TIMING

The drilling and evaluation of this well is estimated be 18 days. Anticipated drilling will be January '92.

DETAILED DRILLING PROGRAM

DATE: December 11, 1991

WELL NAME: Box Canyon WELL NO.: 5F

LOCATION: Section 5, T42 South, R25 East
2390' FNL, 1390' FWL
San Juan County, Utah

ELEVATION: 4,690' GRX 4,703' KB

TOTAL DEPTH: 5703' KB

PROJECTED HORIZON: Primary Target is Desert Crk @ 5375'
Secondary Target is lower Ismay @ 5319'

DRILLING, CASING AND CEMENTING PROGRAM

1. Move in and rig up primary tools. Notify BLM of time of spud.
2. Drill mouse hole and rat hole. Mix mud prior to spudding well.
3. Drill 12 1/4" hole to +/- 515'. Use fresh water gel/lime spud mud for drilling surface hole. Well bore inclination is not to exceed 1 degree at 500'. Deviation surveys will be run at least at 250' and at casing point.
4. Run 8 5/8", 24 lb/ft, K-55, ST&C casing to TD. Cement with 371 sx (427 ft³) of Class 'G' cement with 2% CaCl₂ and 1/4 #/sk Celloflake (sufficient slurry volume to circulate cement to surface.)
5. W.O.C. a minimum of 4 hours prior to nipping up for BOP stack and related equipment. See BOP schematics for details.
6. Ensure that plug has been down at least 8 hours prior to commencing pressure testing procedures. Pressure test BOP to 2,000 psig for 30 minutes. Pressure test manifold and all related equipment to 2000 psig. Pressure test casing to 1500 psig for 30 min.
7. Drill out surface casing with 7/8" bit. Drill 7/8" hole to TD. Deviation surveys are to be taken every 500' or on a bit trip, whichever occurs first. Maximum allowable deviation will be 5 degree @ TD, with maximum allowable rate of change to be 1 degree per 100'.

8. Run open hole logs and evaluate. Coring and/or drill stem testing will be as per well site geologist's recommendation.
9. If the well is determined to be productive run 5 1/2" casing to TD., as per casing program in 10 Point Drilling Plan. Set stage cementing collar at +/- 3,500 ft. In addition to placing centralizers over potential production zones, they will also be run to cover the aquifer sands of the Navajo and DeChelly formations, as per BLM stipulations. Cement production casing in two stages as per cementing program in 10-Point Drilling Plan.
10. Nipple down BOPE. Set 5 1/2" casing slips and cut off casing. Install well head. Release drilling rig and move rig off location.
11. If well is non-productive it will be plugged and abandoned as per State, BLM, and Navajo Tribal stipulations.

EXHIBIT "A" BLOWOUT PREVENTER

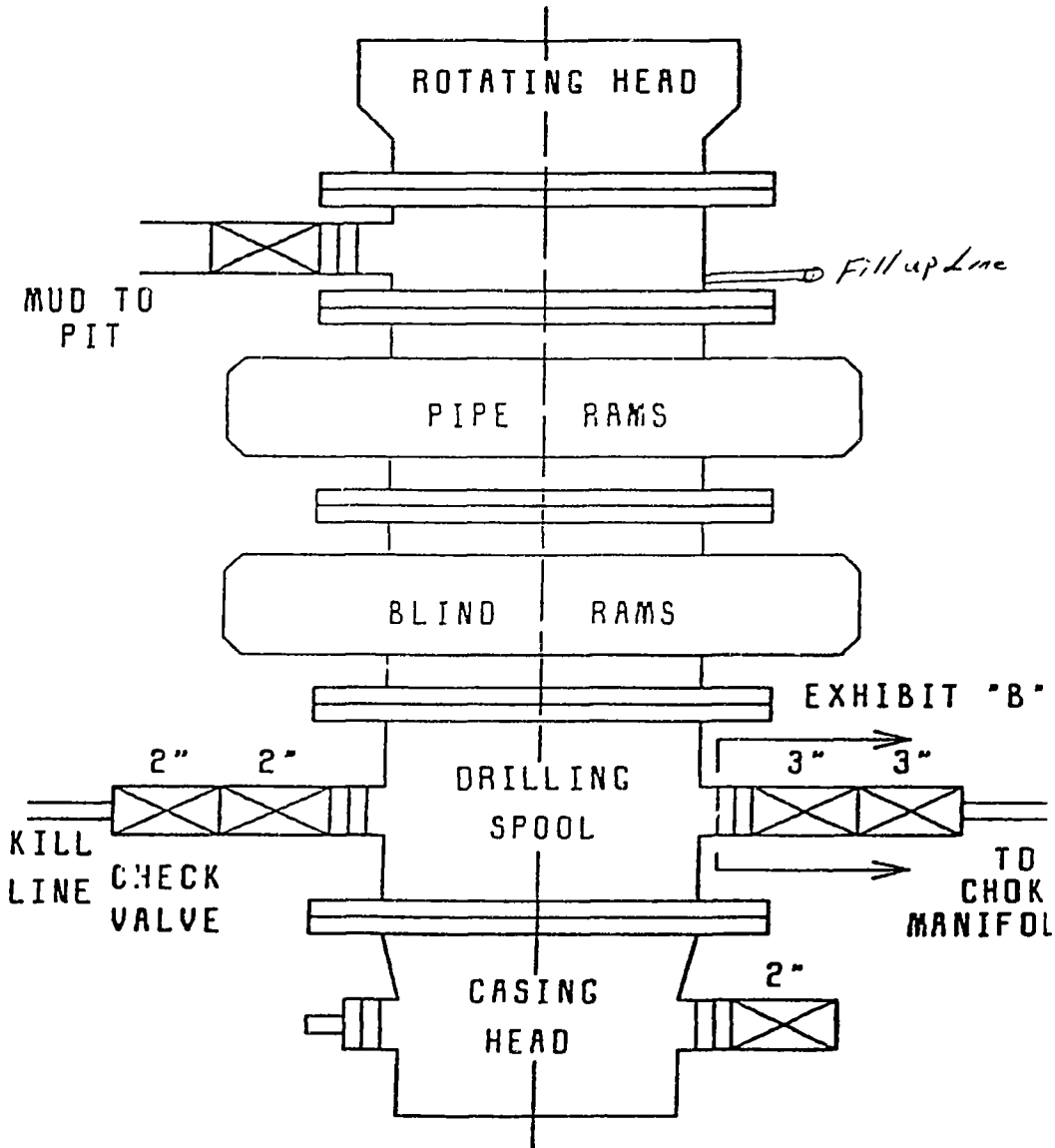
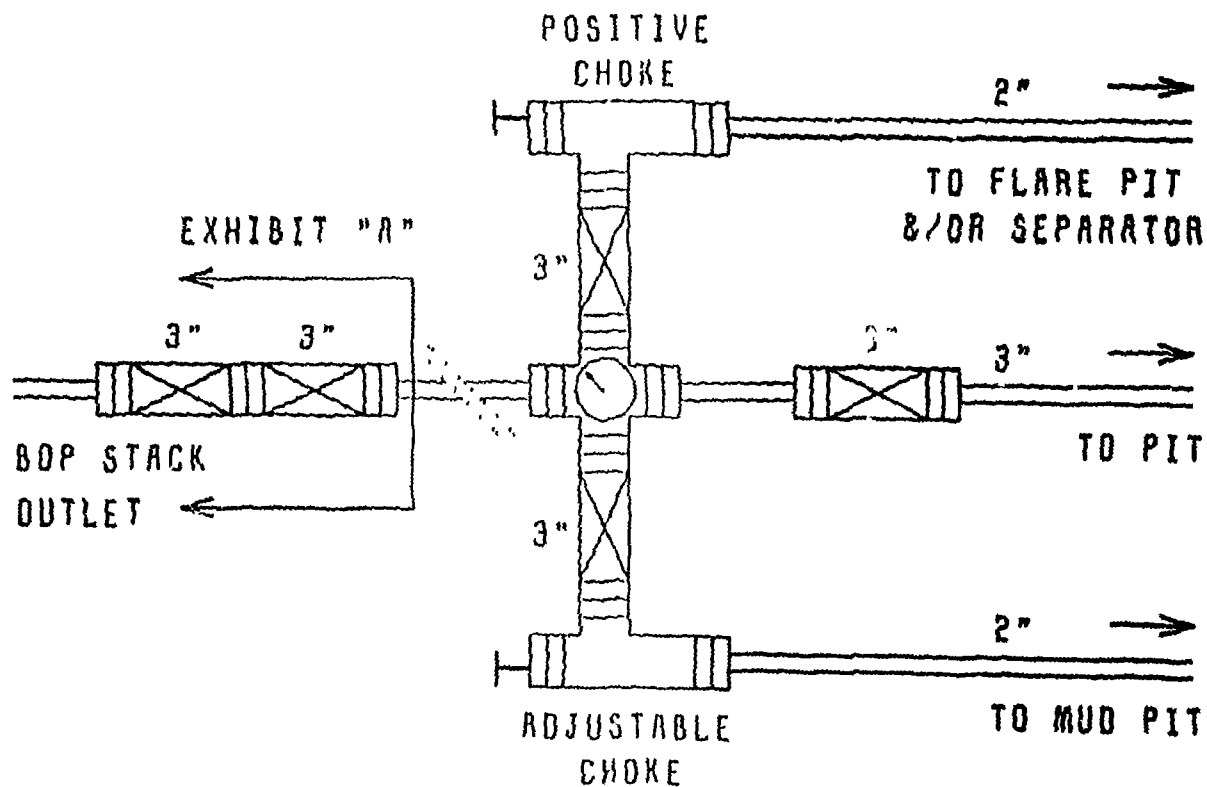


EXHIBIT "B"
CHOKE MANIFOLD



**Box Canyon 5-F
Section 5, T42 South, R25 East
2390' FNL, 1390' FWL
San Juan County, Utah**

GENERAL COMPLETION PROCEDURE

CONFIDENTIAL
If the well is determined to be productive, move in completion rig. Perforate, acidize, and test each productive porosity zone. Completion work will commence after Sundry Notice approval is received. Detailed procedures will follow.

PLUGGING AND ABANDONMENT:

If the well is determined not to be productive, the well bore will be plugged as per BLM, State and BIA requirements.

**Box Canyon 5-F
Section 5, T42 South, R25 East
2390' FNL, 1390' FWL
San Juan County, Utah**

1. EXISTING ROADS

Shown on the attached topographic map are the existing roads in the immediate area. Outlined is the route to be followed to Monteruma Creek. Existing roads will be maintained, as needed, while operations are in progress.

2. PLANNED ACCESS ROAD

The access road will be as shown on the attached topographic map. The road will be maintained as necessary to prevent excessive damage to the existing terrain. The road will be upgraded if commercial production is established. Owing to the well's proximity to an existing road, no new road will be constructed to the location pad.

3. LOCATION OF EXISTING WELLS & TANK BATTERIES

There are no other producing wells or facilities in the immediate area.

4. LOCATION OF EXISTING AND PROPOSED FACILITIES

No production facilities are presently in place. Should the well prove to be productive, facilities (tank battery etc) will be sited on the drilling location pad.

5. LOCATION AND TYPE OF WATER SUPPLY

Water will be acquired from the San Juan River or McElmo Creek and will be hauled using Chuska Energy Company water trucks, under State of Utah Division of Water Rights Permit Numbers 09-1724, (T64796) or 09-1723 (T64795).

6. SOURCE OF CONSTRUCTION MATERIAL

The need for additional construction materials is not anticipated. In the event that additional materials are required, they will be acquired either from private sources or with the approval of the Navajo Nation.

7. METHODS OF HANDLING WASTE MATERIAL

Trash will be contained on location in an enclosed bin. It will be hauled to an approved disposal site or burned on location if a burning permit is granted. The reserve pit will be lined as required, with an approved 7 mil liner, for containing drilling fluids. The pit will also be fenced. All drilling fluids, cuttings and chemical waste will be stored in the reserve pit. Liquid hydrocarbons will be stored in temporary storage tanks and hauled from location to approved sales facilities. The reserve pit will be emptied, back filled and restored to natural terrain status upon completion of drilling operations.

8. ANCILLARY FACILITIES

Chemical portable toilet facilities will be provided on location during drilling and completion operations. No camps or air strips are planned for this well.

9. WELL SITE LAYOUT

Attached is a surveyor's staking plat, cut and fill diagram and a schematic of the proposed rig layout.

10. PLANS FOR RESTORATION OF THE SURFACE

After drilling operations are completed, the location and surrounding area will be cleared of all remaining debris and materials not required for production. Compacted areas will be plowed or ripped to a depth of 12 to 16 inches before reseeding. The existing reserve pit will be used. After drilling operations are complete, drilling fluid in the reserve pit will be allowed to evaporate.

All remaining fluid in the pit will be disposed into an approved disposal site. The reserve pit will remain fenced during the evaporation and disposal process. The pit will then be covered and topsoil will be returned to the disturbed area. The terrain will be returned as near to its original condition as possible. Following operations, rehabilitation seeding will be in accordance with APD/BLM/BIA stipulations. There are no residents in the immediate area of the site.

11. OPERATORS REPRESENTATIVE

CHUSKA ENERGY COMPANY
3315 BLOOMFIELD HIGHWAY
FARMINGTON, NM 87401
LARRY G. SESSIONS

12. CERTIFICATION

I hereby certify that either I, or persons under my direct supervision have inspected the proposed drill site and access route: that I am familiar with the conditions which presently exist: that the statements made in this plan are, to the best of my knowledge, true and correct and that the work planned will be performed by Chuska Energy, or its sub-contractors, in conformity with the terms and conditions under which it is approved.


LARRY G. SESSIONS
OPERATIONS MANAGER



United States Department of the Interior

BUREAU OF LAND MANAGEMENT
FARMINGTON RESOURCE AREA
1235 LAPLATA HIGHWAY
FARMINGTON, NEW MEXICO 87401

IN REPLY REFER TO:
3162.3-1 (019)

Chuska Energy Company
#5-F Box Canyon
14-20-603-373
SE1NW1 sec. 5, T. 42 S., R. 25 E.
San Juan County, Utah

Above Data Required on Well Sign

GENERAL REQUIREMENTS
FOR
OIL AND GAS OPERATIONS ON FEDERAL AND INDIAN LEASES

In addition to those requirements set forth in the laws, regulations and Onshore Orders, these requirements apply generally to all oil and gas operations on Federal and Indian leases. They apply specifically to the above-described well. Special requirements that apply and are effective for this well, if any, are check-marked in Section VII of these General Requirements. The failure of the operator to comply with these requirements and the filing of required reports will result in strict enforcement of 43 CFR 3163.1 or 3163.2.

I GENERAL

A. Full compliance with all applicable laws, regulations, and Onshore Orders, with the approved Permit to Drill, and with the approved Surface Use and Operations Plan is required. Lessees and/or operators are fully accountable for the actions of their contractors and subcontractors.

B. Each well shall have a well sign in legible condition from spud date to final abandonment. The sign should show the operator's name, lease serial number, or unit name, well number, location of the well, and whether lease is Tribal or allotted, (see 43 CFR 3162.6(b)).

C. A complete copy of the approved Application for Permit to Drill, along with any conditions of approval, shall be available to authorized personnel at the drill site whenever active drilling operations are under way.

D. For Wildcat wells only, a drilling operations progress report is to be submitted weekly from spud date until the well is completed and the well Completion Report (Form 3160-4) is filed. The report should be on 8 1/2 x 11 inch paper, and each page should identify the well by, operator's name, well number, location and lease number.

E. As soon as practical, notice is required of all blow-outs, fires and accidents involving life-threatening injuries or loss of life (See NTL-34).

2. Well Completion Report (Form 3160-4) will be submitted within 30 days after well has been completed.

3. Two copies of all electrical and open-hole logs run (two copies of the mud log are required if no open hole electric logs are run).

4. A cement evaluation log if cement is not circulated to surface.

III. DRILLER'S LOG

A. The following shall be entered in the daily driller's log:

1. Blowout preventer pressure tests, including test pressures and results.

2. Blowout preventer tests for proper functioning.

3. Blowout prevention drills conducted.

4. Casing run, including size, grade, weight, and depth set.

5. How pipe was cemented, including amount of cement, type, whether cement circulated to surface, location of cementing tools, etc..

6. Waiting on cement time for each casing string.

7. Casing pressure tests after cementing, including test pressure and results.

8. Estimated amounts of oil and gas recovered and/or produced during drillstem tests.

IV. GAS FLARING

A. Gas produced from this well may not be vented or flared beyond an initial, authorized test period of ____*____ days or 50 MMcf following its (completion) (recompletion), whichever first occurs, without the prior, written approval of the authorized officer. Should gas be vented or flared without approval beyond the test period authorized above, you may be directed to shut-in the well until the gas can be captured or approval to continue venting or flaring as uneconomic is granted, and you shall be required to compensate the lessor for that portion of the gas vented or flared without approval which is determined to have been avoidably lost.

* 30 days, unless a longer test period specifically is approved by the authorized officer. The 30-day period begins when the casing is first perforated for cased holes, and when Total Depth (TD) is reached for open hole completion.

OVER

me 5-F Box Canyon

5 T. 42 S. R. 25 E.

Inspection Date 11/25/91

ell unless a particular
e owner has supplied to BLM
stipulation. The failure of
ay result in the assess-
3163.2. A copy of these
ocation during

owner will take precedence
ce to 43 CFR Part 3160)
ll affect adjacent Federal
maintain well area and lease
d for safety, conservation
or 4) in the event of well
ements will be required

ined in a workmanlike manner
earance. All liquid waste,
ted with oil and gas
place, or removed and
pages will be used for all
oved solid waste disposal
it before, during or after

ted from road ROW and well
ockpiled beside well pads
ep trees as undamaged as
sagebrush, juniper and
All uprooted vegetation
ocation so it does not

ill be limited to the

o as not to leak, break or
At least half of the
of the outside wall of
of one blade width The
feet of free board Pits
walls are to be "walked
tion and prior to usage
moved to below-ground
of reserve pit (after
pit area

erve/production/blow pits) containing liquids
re. Drilling pits will be fenced on three
is location, the fourth side will be fenced.
fence in accordance with N.M. State Law.
owed to evaporate, or be properly disposed of,
recountoured. (This office will be notified 24
). Under no circumstances will pits be cut and
uids must be confined within pit area.

ed minerals from new or existing pits on
construction of roads, well sites, etc.,
the Surface Managing Agency.

or paralleling any improvement on public land,
owner of the improvement to obtain mitigating
o improvements.

stied to braces prior to cutting. The opening
instruction to prevent the escape of livestock.
installed on all cut fences the same day the
cattleguard will be installed and maintained in
se stipulated in writing. A twelve-foot gate
o all new cattleguards.

be constructed around all storage facilities
in the storage capacity of tanks, or the
of a rupture could drain more than one tank.

id must be maintained in good passable condition.

side, herbicide or other possible hazardous
be cleared for use prior to application.

LOGY)

THE ABSENCE OF MONITORING: This stipulation
ery situations where monitoring for cultural
formed because the presence of cultural
en anticipated. If, in its operations, operator
rehistoric ruin, monument, or site, or any
to the Antiquities Act of 1979, and 43 CFR Part
ded and discovery promptly reported to BLM Area
ify what action is to be taken. BLM will
luate its significance, and consult with the
Officer. Minor recordation, stabilization, or
ned by BLM. However, more significant mitiga-
y a qualified, permitted archeologist. It is
are that such mitigation is carried out in
800.11. Given the timeframes involved in BLM's
s are strongly encouraged to fund such required
to significant cultural resources and opera-
not be allowed until any required mitigation is

RESOURCES DURING MONITORING: This stipulation
archeological monitoring was taking place
utions favored the presence of subsurface
project area. If monitoring confirms the

presence of subsurface sites, all work will cease in the site area. The monitor will immediately report this find to BLM Area Manager. BLM will specify what further steps must be taken to assess the damage to the site and to mitigate any adverse effects to it. Monitoring in these circumstances is considered to be a form of inventory and the operator will be responsible for obtaining at his/her expense a qualified permitted archeologist to complete a damage assessment report and to carry out any mitigation required by the BLM.

C. **DAMAGE TO PREVIOUSLY IDENTIFIED SITE:** This stipulation applies to situations where operations have damaged a previously identified archeological site that was visible on the surface. If, in its operations, operator damages, or is found to have damaged, any historic or prehistoric ruin/monument/or site/or any object of antiquity subject to the Antiquities Act of 1906, the Archeological Resource Protection Act of 1979, and 32 CFR Part 3, the grantee will prepare and implement a data recovery plan at his/her expense. The grantee will obtain at his/her expense, a qualified permitted archeologist to carry out the specific instruction of BLM.

RESEEDING AND ABANDONMENT

A. All surface areas disturbed during drilling activities and not in use for production activities, will be reseeded the first July-September period after reserve pit has been filled in and/or location abandoned. For producing locations, this should occur in the first 12 months after drilling is completed.

B. After top soil has been placed on location, compacted areas of well pad will be plowed or ripped to a depth of 12" before reseeding. The surface should be left rough to help retain rain fall. All seeding is recommended to be done between July 1 and September 15. Seeding will be done with a disc-type drill with two boxes for various seed sizes. The drill rows will be eight to ten inches apart. The seed will be planted between one-half inch deep and three quarter inch deep. The seeder will be followed with a drag, packer or roller to insure uniform coverage of seed, and adequate compaction. Drilling of the seed will be done on the contour where possible. Where slopes are too steep for contour drilling a "cyclone" hand-seeder or similar broadcast seeder will be used, after preparation of an adequate seed-bed. Seed will then be covered to a depth described above by whatever means is practical. Mulching, excelsior netting and/or netting may be required on steep slopes.

C. After seeding, remaining rocks and vegetation (trees, brush, etc.) should be placed on the seeded areas using back hoes or rubber tired front-end loaders.

D. If, in the opinion of the SMA, the seeding is unsuccessful, the lessee/operator may be required to make subsequent seedings.

E. If, upon abandonment of wells, the retention of access road is not considered necessary for the management and multiple use of the natural resources, it will be ripped a minimum of 12" in depth. After ripping, water bars will be installed. All ripped surfaces are to be protected from vehicular travel by construction of a deadend ditch and earthen barricade at the entrance to these ripped areas (Reseeding of affected areas may be required).

**BUREAU OF INDIAN AFFAIRS
SURFACE MANAGEMENT STIPULATIONS
TO BE INCLUDED IN APD**

COMPANY.....: Chuska Energy Co
WELL NO.....: Box Canyon 5-F
DATE OF INSPECTION: 11-25-91
PROVIDED BY.....: R Cornett

STIPULATIONSCHECKEDAPPLY

- ✓ 1. ALL ABOVE GROUND STRUCTURES AND EQUIPMENT WILL BE PAINTED WITH THE FOLLOWING NON-GLARE COLOR.

<u>BROWN</u>	<u>FED. STANDARD</u>	<u>595A - 30318</u>
<u>GREEN</u>	<u>FED. STANDARD</u>	<u>595A - 34127</u>
<u>GRAY</u>	<u>FED. STANDARD</u>	<u>595A - 36357</u>
✓ <u>SAND</u>	<u>FED. STANDARD</u>	<u>595A - 30277</u>
<u>MOBIL BEIGE 12-F-38</u>		

- ✓ 2. COMPACTED AREAS WILL BE PLOWED OR RIPPED TO A DEPTH OF 12 TO 16 INCHES BEFORE RESEEDING. SEED WILL BE DRILLED TO A DEPTH OF .5 TO .75 INCH OR BROADCAST AND FOLLOWED BY A DRAG OR PACKER. IF BROADCAST, THE RECOMMENDED SEED MIX WILL BE APPLIED AT 150% OF THE RECOMMENDED RATE. THE FOLLOWING SEED MIX WILL BE USED.

<u>SPECIES</u>	<u>LBS./ACRE/PLS</u>
CRESTED WHEATGRASS.....	_____
SLENDER WHEATGRASS.....	_____
SMOOTH BROME.....	_____
ORCHARDGRASS.....	_____
YELLOW SWEETCLOVER.....	_____
SAINFOIN.....	_____
WESTERN WHEATGRASS.....	_____
SAND DROPSEED.....	_____
✓ ALKALI SACATON.....	<u>1</u>
✓ INDIAN RICEGRASS.....	<u>3</u>
✓ GALLETA.....	<u>2</u>
NEEDLE-N-THREAD.....	_____
SQUIRREL TAIL.....	_____
SIDE OATS GRAMA.....	_____
✓ FOUR-WING SALT BUSH.....	<u>3</u>
SHADSCALE.....	_____
WINTER-FAT.....	_____

(PURITY X GERMINATION = PLS)

3. NA THE TOP 0 INCHES OF SOIL WILL BE SALVAGED, STOCKPILED, AND STABILIZED ON THE _____ SIDE/CORNER OF THE WELL PAD AND/OR IN THE "L" CORNER OF THE WELL PAD AND RESERVE PIT FOR USE IN REVEGETATING THE SITE.
4. NA UPON ABANDONMENT, THE WELL PAD WILL BE FENCED WITH A STANDARD FIVE-STRAND BARB WIRE FENCE, OR EQUIVALENT AND WILL HAVE NO GATES. THE FENCE WILL BE MAINTAINED FOR TWO YEARS TO ALLOW FOR SEEDING ESTABLISHMENT AND WILL THEN BE REMOVED.

5. ☒ ACCESS ROADS NOT NEEDED FOR THROUGH TRAFFIC WILL BE BARRICADED AND RESEEDED IN ACCORDANCE WITH #2. WATER BARS WILL BE CONSTRUCTED TO THE FOLLOWING SPECIFICATIONS.

% SLOPE

1 - 5%
5% - 15%

GREATER THAN 15%

SLOPE DISTANCE

200 FEET

100 FEET

50 FEET

6. ☒ AN EARTHEN BERM (24 INCHES/~~FEET~~ HIGH) WILL BE CONSTRUCTED AROUND THE PERIMETER OF THE WELL PAD, EXCEPT ON THE HIGH/CUT SIDE OF THE WELL PAD.
7. ☒ THE RESERVE PIT WILL BE LINED TO PREVENT SEEPAGE FROM OCCURRING.
8. NA THE RESERVE PIT WILL BE CONSTRUCTED LONG AND NARROW (X FEET) SO THAT THE PIT CAN BE ACCOMODATED AND ANY POTENTIAL HAZARDS REDUCED OR ELIMINATED.
9. NA IMMEDIATELY FOLLOWING DRILLING, THE FLUIDS OF THE RESERVE PIT WILL BE PUMPED AND DISPOSED OF PER BLM INSTRUCTIONS. A SUNDRY NOTICE FOR THIS ACTION IS REQUIRED BY BLM.
10. NA DIVERSION DITCH (ES) WILL BE CONSTRUCTED ON THE SIDE OF THE WELL PAD ABOVE/BELOW (CIRCLE ONE) THE CUT SLOPE DIVERTING ANY RUNOFF TO THE .
11. NA THE WASH (ES) WILL BE DIVERTED AROUND THE SIDE OF THE WELL PAD.
12. ☒ CULVERT(S) OF SUFFICIENT SIZE WILL BE PLACED ON ALL DRAINAGE CROSSINGS OF THE ACCESS ROAD DETERMINED NECESSARY DURING THE ON-SITE INSPECTION.
-
13. ☒ NO PRODUCTION FLOWLINES NOR GAS SALES LINES WILL BE CONSTRUCTED UNTIL THEIR RIGHT-OF-WAYS/EASEMENTS ARE INSPECTED AND APPROVED BY THE SURFACE MANAGEMENT AGENCY.
14. ☒ ANY FLOWLINE(S) (SURFACE/SUBSURFACE) WILL BE CONSTRUCTED PARALLELING NEW AND EXISTING ROAD RIGHT-OF-WAYS, EXCEPT
-
15. NA THE TOP INCHES OF SOIL ON ANY SUBSURFACE FLOWLINE CONSTRUCTED WILL BE ROLLED/SCRAPED TO ONE SIDE OF THE BLADED LINE AND WILL BE DISTURBED AS LITTLE AS POSSIBLE DURING THE ACTUAL CONSTRUCTION. IMMEDIATELY FOLLOWING INSTALLATION, THE ROLL OF TOPSOIL SALVAGED WILL BE REDISTRIBUTED OVER THE BLADED LINE AND WILL BE RESEEDING IN ACCORDANCE WITH ITEM #2. IN ADDITION TO THIS, ALL AREAS DISTURBED (INCLUDING THE REPLACED TOPSOIL) WILL BE IMPRINTED WITH A LAND IMPRINTER OR SHEEP'S FOOT TYPE ROLLER TO CREATE A PATTERN OF SMALL DEPRESSIONS TO ENHANCE VEGETATIVE REGROWTH. ALL DRAINAGES CROSSED BY THESE LINE(S) WILL BE RESTORED, AS NEAR AS POSSIBLE, TO THEIR ORIGINAL FORM. WATER BARS WILL BE CONSTRUCTED IN ACCORDANCE WITH ITEM #5.

16. ☒ FENCE (S) CROSSED BY THE ACCESS ROAD WILL BE BRACED AND TIED OFF BEFORE CUTTING OF THE WIRES TO PREVENT SLACKENING OF THE FENCE LINES. BOTH A GATE AND CATTLE GUARD WHICH MUST BE BIA APPROVED WILL BE INSTALLED.
17. ☒ STORAGE TANK(S) INSTALLED ON THE LOCATION WILL BE SURROUNDED BY A DIKE OF SUFFICIENT CAPACITY TO CONTAIN 1-1/2 TIMES THE STORAGE CAPACITY OF THE TANK(S).
18. ☒ THE STIPULATIONS SET FORTH IN THE ARCHEOLOGICAL CLEARANCE LETTER DATED 12/30/91 WILL BE STRICTLY ADHERED TO. CLEARANCE NO. HPD-91-594
19. NA UPON ABANDONMENT, ALL MATERIAL BROUGHT IN TO PLATE THE SURFACE OF THE WELL PAD AND/OR THE ACCESS ROAD WILL BE CLEANED UP AND DISPOSED OF PRIOR TO RESEEDING.
20. ☒ THE CONSTRUCTION WORK CONDUCTED AT THIS LOCATION WILL NEED TO BE INSPECTED BEFORE THE DRILL RIG IS MOVED ON THE LOCATION.

ALL CHANGES/DEVIATIONS MADE FROM THE APPROVED APD MUST BE CLEARED AND APPROVED BY THE SURFACE MANAGEMENT AGENCY. THE SURFACE MANAGEMENT AGENCY CAN BE CONTACTED AT (505) 368-4427.

OTHER:



CHUSKA ENERGY COMPANY

3315 BLOOMFIELD HIGHWAY • FARMINGTON, NEW MEXICO 87401 • PHONE (505) 326 5525

September 7, 1993

State of Utah
Department of Natural Resources
Division of Oil, Gas and Mining
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203

RECEIVED

SEP 10 1993

DIVISION OF
OIL, GAS & MINING

Attn: Mr. R.J. Firth
Associate Director

RE: Utah Division of Oil, Gas and Mining's
Reporting Requirements

Dear Mr. Firth:

Enclosed please find the following reports and well logs run on wells drilled by Chuska Energy Company during the period January 1, 1992 forward. The Production Reports were filed in June under a separate cover letter by our home office, Harken Energy Company, out of Dallas. We have received conflicting statements as to whether or not the data was received. Therefore, a second set of Production reports from January 1992 forward are also forwarded to your office under this cover letter.

APD(S), SUNDRY NOTICES AND ENTITY ACTION FORMS

Barnes 18M
Barnes 18M(N)
Brown Hogan 1A-2
Burro 33I
Clay Hill 33-0
Crane 35H
Copperhead 15E
D.C. Anticline 35K
Heron 35H
Heron 35H(A)
Jack 31G
Kokopelli 29I
Lark 19B
Lark 19B(G)
Lighting Rock 2E
Lizard 4M
Lone Mountain Creek 12F-1

Monument 17E-2
Mule 31K
Mule 31K(N)
Mule 31M
NW Cajon 11-1
North Heron 35C
Northwest Cajon 6E
North Cajon Mesa 5E-1
North Ruins 16K
Red Lake 25B
Tower 1F
Box Canyon 5F
Shalene 11K
South Triangle 7I
West Clay Hill 5B(A)

RECEIVED

SEP 10 1993

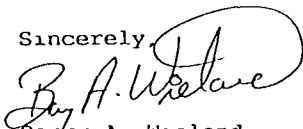
DIVISION OF
OIL, GAS & MINING

LOGS

Barnes 18M(N)
Brown Hogan 1A-2
Burro 33I
Clay Hill 33-0
Copperhead 15E
D.C. Anticline 35K
Heron 35H
Jack 31G
Kokopelli 29I
Lark 19B(G)
Lighting Rock 2E
Lone Mountain Creek 12F-1
Mule 31K(N)
Mule 31M
North Cajon Mesa 5E-1
North Heron 35C
N.W. Cajon 11-1
N.W. Cajon 6E
Red Lake 25B
West Clay Hill 5B(A)

If you should have any further questions, please don't hesitate to contact me, or Nell Lindenmeyer, at 505-326-5525.

Sincerely



Barry A. Wieland
Operations Manager

Enclosures

cc: Well File

10/22/93
api num: 43-037-31730 D TAIL WELL DAT menu: opt 00
entity: : prod zone: sec 5 twnshtp 42 S range 25 E qr-gr 5 E N W
well name: Box 600 5F
operator: : CHUSKA ENERGY COMPANY meridian:
field: : VILDCAT
confidential flag: Y confidential expires: alt addr flag:

*** application to drill, deepen, or plug back ***
lease number: BIA 1420603373 lease type: 2 well type: OW
surface loc: 7390 FUL 1390 FUL unit name:
prod zone loc: depth: 5703 proposed zone: 15-DC
elevation: 4690 GR apd date: 3-31-92 auth code: 649-3-3
*** completion information ***
spud date: date recd:
producing intervals: compl date:
bottom hole: first prod:
24hr oil: 24hr gas: 24hr water: well status:
24hr water: gas/oil ratio:
*** well comments: api gravity:

BLM ADD APPROVAL DATE USED

opt: 21 api: zone: date(yy-mm): enty acct:

CONFIDENTIAL
CONFIDENTIAL

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

1A. Type of Work. DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/>		5. Lease Designation and Serial Number RIA 14-20-603-373
B. Type of Well OIL <input checked="" type="checkbox"/> GAS <input type="checkbox"/> OTHER <input type="checkbox"/> SINGLE ZONE <input type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>		6. If Indian, Name of Tribe Navajo Tribal
2. Name of Operator Chuska Energy Company		7. Unit Agreement Name N/A
3. Address and Telephone Number 3315 Bloomfield Highway, Farmington, N.M. 87401 505-326-5525		8. Farm or Lease Name
4. Location of Well (Footages) At Surface 2390' F 390' FWL 1) Proposed Producing Zone Same <i>5C NW</i>		9. Well Number Box Canyon 5F
14. Distance in miles and direction from nearest post office 15.5 miles from Montezuma Creek, Utah		10. Field and Pool or Wildcat Wildcat
15. Distance to nearest property or lease line (feet) 1.1 miles	16. Number of acres in lease	11. Oil/Co. Section Township Range Meridian Sec. 5, T42S, R25E
18. Distance to nearest well drilling completed or applied for on this lease (feet) .5 miles	19. Proposed Depth 5703'	12. County San Juan
21. Elevations (show whether OF RT GR, etc.) 4690' GR/4703' KB		13. State UTAH
22. Approximate date work will start February, 1992		

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	GRADE SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/4"	K-55, 8 5/8"	24 ppf	500'	371 cu ft & 2% CaCl ₂
7 7/8"	K-55, 5 1/2"	18.5 ppf	5703'	320 cu ft, 65+35 Poz & 6% Gel

DESCRIBE PROPOSED PROGRAM. If proposal is to deepen, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout prevention program, if any.

REFER TO ATTACHED 10-POINT DRILLING PLAN

SEP 10 1993

CONFIDENTIAL

24. Name & Signature *B. A. Wickland* Title OPERATIONS MANAGER Date 5-27-93
BARRY A. WICKLAND

(This space for State use only)

API Number Assigned 4303131220

Approval

Approved
3-31-92
RB49-3-3

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
A	99999	11579	43-037-31727	<i>Cont</i> KOKOPELLI 29I	NESE	29	41S	23E	SAN JUAN		11-3-93

WELL 1 COMMENTS:

A	99999	11580	43-037-31724	<i>Cont.</i> NORTH RUINS 16K 1	NESW	16	40S	25E	SAN JUAN		11-3-93
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WELL 2 COMMENTS:

A	99999	11581	43-037-31725	SHALENE 11 K	NWSE	11	42S	24E	SAN JUAN		11-3-93
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WELL 3 COMMENTS:

A	99999	11582	43-037-31729	<i>Cont</i> TOWER 1F	SENW	1	40S	25E	SAN JUAN		11-3-93
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WELL 4 COMMENTS:

A	99999	11583	43-037-31730	<i>Cont</i> BOX CANYON 5F	SENW	5	42S	25E	SAN JUAN		11-3-93
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WELL 5 COMMENTS:

ACTION CODES (See instructions on back of form)

- A - Establish new entity for new well (single well only)
- B - Add new well to existing entity (group or unit well)
- C - Re-assign well from one existing entity to another existing entity
- D - Re-assign well from one existing entity to a new entity
- E - Other (explain in comments section)

NOTE. Use COMMENT section to explain why each Action Code was selected

(3/89)

fc
L. CORDOVA (DOGM)

Signature

ADMIN. ANALYST

Title

11-3-93

Date

Phone No. ()

FEBRUARY 8, 1994

TO: WELL FILE

FROM: K. M. HEBERTSON

RE: Status, Box Canyon 5F 43-037-31730 5-42S-25E

Per telephone conversation with the operator concerning the status of this well, it was determined that the well will not be drilled and the operator has acknowledged that the APD has expired. The operator has been informed that the APD will need to be refilled in order to drill this well at a future date.

As of the above date the APD has been rescinded and the file sent to the LA archives.

KMH